

Smart wearable electronic textiles (e-textiles) that can detect and differentiate multiple stimuli, while also collecting and storing the diverse array of data signals using highly innovative, multifunctional, and intelligent ...

A comprehensive, contemporary, and accessible overview of electronic textiles that are capable of harvesting solar energy and the suitability of the textile-based energy harvesting devices for ...

The book includes sections on emerging electronic fibers and textiles, including stress-sensing, strain-sensing, and chemical-sensing textiles, as well as emerging self-powered electronic ...

The traditional energy storage devices with large size, heavy weight and mechanical inflexibility are difficult to be applied in the high-efficiency and eco-friendly energy conversion system. 33,34 The electrochemical performances ...

Karuppasamy, K. et al. Ionic liquid-based electrolytes for energy storage devices: a brief review on their limits and applications. *Polymers* 12, 918 (2020). ... Electronic textiles can be ...

Combining electronic fibers/textiles with human skin can potentially build an intelligent system, which combines and coordinates the functions of response, perception, communication, ...

Electronic textiles have garnered significant attention as smart technology for next-generation wearable electronic devices. ... The conventional energy storage devices fail ...

Textile-based flexible energy storage devices that are used for wearable applications can be categorized into: 1D fiber/yarn shaped device and 2D fabric shaped device. Additionally, there ...

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